



US005625670A

United States Patent [19]

Campana, Jr. et al.

[11] Patent Number: **5,625,670**[45] Date of Patent: ***Apr. 29, 1997**

[54] **ELECTRONIC MAIL SYSTEM WITH RF COMMUNICATIONS TO MOBILE PROCESSORS**

FOREIGN PATENT DOCUMENTS

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"Message Link", appearing in British Telecommunications Engineering, vol. 4, Jan. 1986, p. 202.

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(List continued on next page.)

[*] Notice: The term of this patent shall not extend beyond the expiration date of Pat. No. 5,436,960.

[21] Appl. No.: **443,430**

[22] Filed: **May 18, 1995**

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[57] **ABSTRACT****Related U.S. Application Data**

[63] Continuation of Ser. No. 702,939, May 20, 1991, Pat. No. 5,436,960, Ser. No. 702,938, May 20, 1991, Pat. No. 5,479,472, and Ser. No. 247,466, May 23, 1994, Pat. No. 5,438,611, which is a continuation of Ser. No. 702,319, May 20, 1991, abandoned.

[51] Int. Cl.⁶ **H04M 11/00**

[52] U.S. Cl. **379/58; 379/57; 379/93; 379/96**

[58] Field of Search 379/58, 57, 67,
379/68, 93, 96, 97, 98; 364/222.2, 222.3,
284, 284.3, 284.4, 919.2

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A system (100) for transmitting information from one of a plurality of originating processors A-N to at least a plurality of destination processors (A-N) which may be transported during operation in accordance with the invention includes at least one gateway switch (14), a gateway switch storing information received from one of the at least one originating processor prior to transmission of the information to the at least one destination processor; a RF information transmission network (302) for transmitting stored information received from one of the at least one gateway switch by RF transmission to at least one destination processor; at least one interface switch (304), an interface switch connecting a gateway switch to the RF transmission network and transmitting stored information received from one of the at least one gateway switch to the RF information transmission network; and wherein the information is transmitted to a receiving interface switch by the electronic mail system in response to an address of the receiving interface switch which has been added to the information originated by the originating processor by either the originating processor or gateway switch and the information is transmitted from the receiving interface switch to the RF information transmission network with an address of the destination processor to receive the information which has been added by either the originating processor, a gateway switch or the receiving interface switch.

276 Claims, 12 Drawing Sheets